

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3069	455/550.1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 09:11
L2	1348	455/572	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 09:11
L3	2577	455/575.1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 09:11
L4	5785	L1 or L2 or L3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 09:12
L5	2	L4 and ((flat or thin) near2 (mic or microphone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 09:13
S1	839	PCB and (battery and microphone) and connect\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 19:23
S2	2320	455/550.1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 19:24
S3	1184	455/572	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 19:24

## EAST Search History

S4	1873	455/575.1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 14:29
S5	685	361/814	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 19:24
S6	5882	S1 or S2 or S3 or S4 or S5	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 21:52
S7	839	S1 and S6	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 19:56
S8	78	(engagement adj sink)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 19:29
S9	158	(engag\$4 adj sink)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/23 20:10
S10	0	S7 and S9	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 19:31
S11	2	S6 and S9	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 19:31

## EAST Search History

S12	797012	conduct\$4 and insulat\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 19:56
S13	195	S7 and S12	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 20:13
S14	3661	battery and microphone and (insulat\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 20:49
S15	603	battery same microphone same (insulat\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 20:25
S16	7	S6 and S15	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 20:15
S17	5109	S2 or S3 or S4 or S5	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 20:24
S18	1080	battery same microphone same (opposite)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 20:25
S19	280	battery same microphone same (opposite adj side)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 20:25

## EAST Search History

S20	4	S19 and S17	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 20:26
S21	4059	battery and microphone and (insulat\$4 or (non adj conductive))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 20:50
S22	319	S21 and S6	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 20:51
S23	22068	(microphone near4 (connect\$4 or wir\$4))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 20:52
S24	119	S22 and S23	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 20:52
S25	0	(coin adj battery) and ((nonconduct\$4 or insulat\$4) adj (cover or board))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 21:54
S26	171	(coin adj battery) and (substrate or cover or board)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 21:54
S27	4	S6 and S26	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 21:55

## EAST Search History

S28	317329	(wireless or portable cell\$4 or mobile) adj (phone or telephone or handy)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 21:57
S29	2	S28 and ((coin adj battery) near4 board)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 21:57
S30	63	S28 and (coin adj battery)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:00
S31	1	S28 and ((coin adj battery) near4 pcb)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:01
S32	158	(engag\$4 adj sink)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/23 20:11
S33	197607	(nonconduct\$4 or insulat\$4) near3 (body or cover or piece or support)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/23 20:14
S34	65506	(nonconduct\$4 or insulat\$4) adj (body or cover or piece or support)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/23 20:16
S35	6920	((nonconduct\$4 or insulat\$4) adj (body or cover or piece or support)) near10 (cavity or hole or space or holder or socket)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/23 20:18

## EAST Search History

S36	0	((nonconduct\$4 or insulat\$4) adj (body or cover or piece or support)) near10 (cavity or hole or space or holder or socket) near10 ((battery) and (mic or microphone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/23 20:19
S37	47	((nonconduct\$4 or insulat\$4) adj (body or cover or piece or support)) near10 (cavity or hole or space or holder or socket) near10 ((battery) or (mic or microphone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 14:05
S38	359071	(mobile or wireless or portable or cell\$4) adj (phone or telephone or terminal)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 14:03
S39	320251	(mobile or wireless or portable or cell\$4) adj (phone or telephone)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 14:03
S40	47	((nonconduct\$4 or insulat\$4) adj (body or cover or piece or support)) near10 (cavity or hole or space or holder or socket) near10 ((battery) or (mic or microphone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 14:04
S41	3	S40 and S38	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 14:04
S42	6920	((nonconduct\$4 or insulat\$4) adj (body or cover or piece or support)) near10 (cavity or hole or space or holder or socket)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 14:05
S43	103	S42 and S38	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 14:06

## EAST Search History

S44	1907	455/575.1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 14:31
S45	388	S44 and ((connector or body or housing or cover or board) near4 (battery or microphone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 15:16
S46	44	S44 and ((connector or body or housing or cover or board) near4 (battery and microphone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 14:50
S47	1	S44 and ((connector or body or housing or cover or board) adj4 compris\$4 adj (battery or microphone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 14:50
S48	44	S44 and ((connector or body or housing or cover or board) near4 (battery and microphone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 15:18
S49	790	(mobile or portable or wireless or cell\$4 adj (phone or telephone)) and ((connector or body or housing or cover or board) near4 (battery and-microphone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:34
S50	101403	"455"/\$	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 15:17
S51	336	S50 and ((connector or body or housing or cover or board) near4 (battery and microphone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:42

## EAST Search History

S52	2	S50 and ((connector or body or housing or cover or board) near4 (battery same microphone same (opposite adj side)))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:10
S53	0	2004/0204185	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:10
S54	2	"20040204185"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:28
S55	891	(reduc\$4 or decreas\$4 or sav\$4 or increas\$4) near4 (space or area) near4 (cicuit adj board or (PCB))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:29
S56	277	((reduc\$4 or decreas\$4 or sav\$4 or increas\$4) near4 (space or area) near4 (cicuit adj board or (PCB))). ab,ti.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 17:01
S57	1236541.	(mobile or portable or wireless or cell\$4 adj (phone or telephone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:34
S58	34	S56 and S57	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:35
S59	0	S51 and S55	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:41



## EAST Search History

S60	0	S55 and ((connector or body or housing or cover or board) near4 (battery and microphone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 16:42
S61	1	S56 and S50	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 17:02
S62	25	S57 and (PCB or (circuit adj board)) and (coin adj battery)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 17:21
S63	8	S57 and (PCB or (circuit adj board)) and (coin adj battery) and housing	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 17:03
S64	618	S57 and (PCB or (circuit adj board)) and (connector near2 (nonconductive or insulat\$4))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 17:22
S65	10	S57 and (PCB or (circuit adj board)) and (connector near2 (nonconductive or insulat\$4) near4 (battery or microphone))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 17:59
S66	261	(hollow\$2 or cavit\$4) near3 (side adj wall) near5 (terminal)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:01
S67	0	S44 and S66	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:01

## EAST Search History

S68	0	S50 and S66	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:01
S69	1844099	S66 (housing)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:02
S70	166	S66 and (housing)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:02
S71	5	S66 and (housing) and S57	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:18
S72	6673	(hollow near\$4 cavit\$4 ) and (housing) and S57 and (battery near2 connect\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:25
S73	26201	(battery near2 connect\$4).ab,ti.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:20
S74	412	S72 and S73	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:20
S75	6183	(hollow near\$4 cavit\$4 near4 battery) and (housing) and S57 and (battery near2 connect\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 18:25

## EAST Search History

S76	364	S75 and S74	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 19:19
S77	90	(hollow or trench or cavity) near5 (four adj3 terminal)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 19:20
S78	57	S77 and S69	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 19:24
S79	0	S77 and S69 and (mobile and phone)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 19:24
S80	0	S77 and S69 and (mobile adj phone)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 19:25
S81	1	S77 and S69 and ((mobile or wireless or portable or cellular) adj phone)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/06/24 19:25
S82	63	(flat or thin) adj (mic or microphone)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/01/21 23:39